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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/700,284	11/13/2000	Paul W. Dent	P09505-US1	3472
24239 75	08/24/2005		EXAMINER	
MOORE & VAN ALLEN PLLC P.O. BOX 13706		DAVIS, CYNTHIA L		
Research Triangle Park, NC 27709			ART UNIT	PAPER NUMBER
			2665	
			DATE MAILED: 08/24/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)				
Office Action Commons	09/700,284	DENT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Cynthia L Davis	2665				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
2a) This action is FINAL . 2b) ⊠ This	☐ This action is FINAL . 2b) ☐ This action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims						
4)⊠ Claim(s) <u>1-21 and 26</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>11-18 and 26</u> is/are allowed.						
6)⊠ Claim(s) <u>1-10,19 and 21</u> is/are rejected.						
7)⊠ Claim(s) <u>20</u> is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.					
Application Papers						
9) The specification is objected to by the Examiner.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.						
Applicant may not request that any objection to the	drawing(s) be held in abeyance. See	e 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)☐ The oath or declaration is objected to by the Ex	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.					
Priority under 35 U.S.C. § 119						
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 						
Attachment(s)						
1) Notice of References Cited (PTO-892)	4) Interview Summary Paper No(s)/Mail Da					
Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date		Patent Application (PTO-152)				

DETAILED ACTION

The following is a supplemental action, replacing the action mailed on June 7,
 2005.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.
- 2. Claims 1, 4, 5, and 19 are rejected under 35 U.S.C. 102(e) as being anticipated by I (6088335).

Regarding claim 1, at a base station, transmitting first predetermined data symbols and unknown data symbols, at the base station, selectively transmitting second predetermined data symbols; at the base station, transmitting an indication when transmission of the second predetermined data symbols is not guaranteed, at a mobile station, decoding transmissions from the base station using at least the first predetermined data symbols is disclosed in I, column 10, lines 21-22 (this is a CDMA system, so transmission of the first predetermined and unknown symbols must happen; the mobile being told to retry later is the indication that the second is not guaranteed, the mobile will always decode using the first predetermined data symbols).

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Regarding claim 4, transmitting the indication when the base station suspends transmission of a synch word during a subsequent timeslot is disclosed in column 10, lines 21-22 (the indication is sent when the transmitting cannot be done with reliable timing; unreliable timing is partial suspension of the transmission).

Regarding claim 5, transmitting the indication includes transmitting the indication when the base station cannot guarantee transmission of the second predetermined data symbols with any of: reliable timing, reliable phase, reliable amplitude and reliable direction continuity is disclosed in column 10, lines 21-22 (the indication is sent when the transmitting cannot be done with reliable timing).

Regarding claim 19, at least one base station to transmit radio signals during a succession of time slots including a current time slot and a subsequent time slot, the radio signals including an indication of whether transmission of the subsequent time slot is guaranteed, at least one mobile station to receive the radio signals in accordance with the indication is disclosed in I, column 10, line 20 (the base station transmits the assignment message, which indicates that the time slot is guaranteed).

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 2 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over I in view of Ghisler.

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Regarding claim 2, the first predetermined data symbols comprise a synchronization word for a current time slot is missing from I. However, Ghisler discloses in column 6, lines 28-30, that each time slot has a synch word. It would have been obvious to one skilled in the art to transmit a synch word for the current time slot. The motivation would be to synchronize and identify the slot.

Regarding claim 3, the second predetermined data symbols comprise a synchronization word for a subsequent time slot is missing from I. However, Ghisler discloses in column 6, lines 28-30, that each time slot has a synch word. It would have been obvious to one skilled in the ad to transmit a synch word for the subsequent time slot. The motivation would be to synchronize and identify the slot.

4. Claims 6-9 and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over I in view of Acampora.

Regarding claim 6, the mobile station transmitting an indicator, the indicator indicating that the mobile station expects transmission of the second predetermined data symbols, and at the base station, in response to the indicator, reliably transmitting the predetermined data symbols, is missing from I. However, Acampora discloses in column 3, lines 37-45, a mobile station transmitting an indicator of QOS requirement, and a base station, if it chooses to admit the mobile, transmitting time slots at the level requested by the mobile. It would have been obvious to one skilled in the art at the time of the invention to use the system of Acampora with the system of 1. The motivation would be to guarantee QOS levels to admitted mobile nodes.

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Regarding claim 7, the indicator comprising a predetermined data pattern is missing from I. However, Acampora discloses in column 3, lines 37-45, the mobile requesting admission from the base station, which would involve a predetermined data pattern, or the base station would not recognize the request as a request. It would have been obvious to one skilled in the art at the time of the invention to use the indicator of Acampora with the system of I. The motivation would be to have the mobiles indicate what QOS they need.

Regarding claim 8, the indicator comprising an operational mode indicator for the mobile station is missing from 1. However, Acampora in column 3, lines 37-45, discloses the mobile requesting a certain QOS from the base station, which is an indicator of operational mode. It would have been obvious to one skilled in the art at the time of the invention to use the indicator of Acampora with the system of 1. The motivation would be to have the mobiles indicate what QOS they need.

Regarding claim 9, at the base station, in response to the identifier, determining the transmission requirements for the mobile station, and transmitting the predetermined data symbols in response to the transmission requirements for the mobile station is missing from 1. However, Acampora discloses in column 3, lines 37-45, a mobile station transmitting an indicator of QOS requirement, and a base station, if it chooses to admit the mobile, transmitting time slots at the level requested by the mobile. It would have been obvious to one skilled in the art at the time of the invention to use the system of Acampora with the system of I. The motivation would be to quarantee QOS levels to admitted mobile nodes.

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Regarding claim 21, the at least one base station includes a circuit for receiving a signal from a particular mobile station of the at least one mobile station indicative of a type of the particular mobile station, the mobile station being one of a type that requires guaranteed transmission of the subsequent time slot and of a type that does not require guaranteed transmission of the subsequent time slot is missing from I. However, Acampora in column 3, lines 37-45, discloses the mobile requesting a certain QOS from the base station, which is an indicator of needing guaranteed transmission of a subsequent slot. It would have been obvious to one skilled in the art at the time of the invention to use the indicator of Acampora with the system of 1. The motivation would be to have the mobiles indicate what QOS they need.

5. Claim 10 rejected under 35 U.S.C. 103(a) as being unpatentable over I in view of Acampora in view of Civanlar.

Regarding claim 10, the transmission requirements being retrieved from a subscriber database is missing from 1. However, Civanlar discloses in column 6, lines 39-42, a database that holds QOS requirements for end user nodes in a network. It would have been obvious to one skilled in the art at the time of the invention to use the database of Civanlar in the system of I. The motivation would be to store the expected QOSs.

Allowable Subject Matter

6. Claims 11-18 and 26 are allowed.

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7. Claim 20 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the

base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Cynthia L Davis whose telephone number is (571) 272-

3117. The examiner can normally be reached on 8:30 to 6, Monday to Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

CLD 8/16/2005

SUPERVISORY PATENT EXAMINER

TECHNOLOGY CENTER 2600